

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**RECEIVED
CENTRAL FAX CENTER**

Applicant(s): Zaiqian HU

Serial No.:10/603,082

Filed: June 25, 2003

For: Heat Exchanger.

Art Unit: 3743

Examiner: Mckinnon, Terrell L

Attorney Dkt: RUS0120

AUG 20 2004

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner for Patents and Trademarks
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sirs:

August 20, 2004

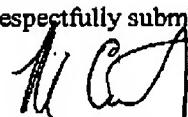
Applicant submits this statement in accordance with their duty of disclosure under CFR 1.56 and 1.97-1.98. The submission made herewith is, in no way, intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is no way intended to substitute for the Examiner's own independent investigation. As the Applicant received the application from outside counsel only after the First Office Action, it is not clear if an initial Information Disclosure Statement actually has been filed. Subsequently, this 'Supplemental' IDS is being submitted.

Copies of the references together with a listing on Forms PTO/SB/08A are submitted herewith.

Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

This Information Disclosure Statement is being submitted after the mailing of a first Office Action. The fee set forth in 37 CFR 1.117 (p) of \$180.00 may be due. If any fee is due with the filing of this paper, please charge the amount to deposit account No. 50-2814.

Respectfully submitted,

By: 

Ronald Courtney
 Reg. No. 34,805
 Valeo, Inc.

Intellectual Property Department
 4100 North Atlantic Boulevard
 Auburn Hills, Michigan 48326
 Tel: (248) 209 84 35 – Fax: (248) 209 82 05

AUG 20 2004

OFFICIAL

PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 4

Complete If Known

Application Number	10/603,082
Filing Date	06/25/2003
First Named Inventor	Zaiqian HU
Art Unit	3743
Examiner Name	McKinnon

Attorney Docket Number RUS0120

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If Known)			
		US- 2,037,845	04/21/1936	F.M. Young	
		US- 2,505,790	05/02/1950	E.H. Panthofer	
		US- 3,300,135	01/24/1967	G.E. Slater et al.	
		US- 3,554,440	01/12/1971	Austin et al.	
		US- 3,818,981	06/25/1974	Caldwell	
		US- 3,920,067	11/18/1975	Schindler et al.	
		US- 4,669,532	06/02/1987	Tejima et al.	
		US- 5,036,911	08/06/1991	Guntly et al.	
		US- 5,526,873	06/18/1996	Marsais et al.	
		US- 5,575,329	11/19/1996	So et al.	
		US- 6,082,447	07/04/2000	Insalaco et al.	
		US- 6,119,340	09/19/2000	Insalaco et al.	
		US- 6,158,500	12/12/2000	Heine	
		US- 6,161,614	12/19/2000	Woodull et al.	
		US- 6,253,837	07/03/2001	Seiler et al.	
		US- 6,394,176	05/28/2002	Marsais	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (If Known)				
		EP 085 1198 B1	06/26/2003	Behr GmbH & Co		
		EP 085 1198 A2	01/01/1998	Behr GmbH & Co		
		EP 078 9213 A2	08/13/1997	Behr GmbH & Co		
		EP 100 3005 A1	05/24/2000	Valeo thermique <i>m of sun</i>		

Examiner Signature	Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
A collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/603,082
		Filing Date	06/25/2003
		First Named Inventor	Zaiqian HU
		Art Unit	3743
		Examiner Name	McKinnon
Sheet <u>12</u>	of <u>14</u>	Attorney Docket Number	RUS0120

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	FOREIGN PATENT DOCUMENTS		Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ²
		Foreign Patent Document Country Code ³ "Number ⁴ "Kind Code ⁵ " (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		JP 7-17964	04/26/1995	Zexel Corp.	
		JP 3-79085	08/12/1991		
		JP 4-369396	12/22/1992		
		DE 195 36 116	04/03/1997	Behr GmbH & Co.	
		JP 63197887	08/16/1988	Matsushita Refr	

Examiner Signature		Date Considered	
-------------------------------	--	----------------------------	--

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1G if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/603,082
		Filing Date	06/25/2003
		First Named Inventor	Zaiqian HU
		Art Unit	3743
		Examiner Name	McKinnon
		Attorney Docket Number	RUS0120
Sheet	13	of	4

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3 of 4

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ "Number ⁴ " Kind Code ⁵ (if known)			T ⁶
		JP 2001174190	06/29/2001	Denso Corp.	
		JP 02230091	09/12/1990	Hitachi Ltd.	
		JP 59205591	11/21/1984	Nippon Denso Co	
		JP 63197887	08/16/1988		

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 If possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.87 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/603,082
		Filing Date	06/25/2003
		First Named Inventor	Zaiqian HU
		Art Unit	3743
		Examiner Name	McKinnon
Sheet	4	of	4
		Attorney Docket Number	
		RUS0120	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. [†]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		International search report for application Serial No. PCT/US03/13942 dated August 29, 2003	
		Partial international search report for application Serial No PCT/US03/13955 dated August 22, 2003	
		International search report for application Serial No. PCT/US03/13254	
		Copending application Serial No. 60/355,903 filed February 11, 2002	
		Copending application Serial No. 10/140,899 filed May 7, 2002	
		Copending PCT application Serial No. PCT/US03/03985	
		Patent application Ser No. 10/425,348 filed April 30, 2003	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[†]1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.